What is claim d is:

1. A light-emitting tube array display device comprising:

a light-emitting tube array constituted of a plurality of light-emitting tubes arranged in parallel with discharge gas filled therein;

a light-transmitting supporter abutting a display surface side of the light-emitting tube array for supporting the light-emitting tube array and having electrodes formed on its surface facing the light-emitting tube array for applying a voltage to the light-emitting tubes; and

a light-transmitting adhesive layer formed between the supporter and the light-emitting tube array,

wherein the adhesive layer has a refractive index equal to or higher than that of a tube body of each light-emitting tube.

2. A light-emitting tube array display device comprising:

a light-emitting tube array constituted of a plurality of light-emitting tubes arranged in parallel with discharge gas filled therein;

a light-transmitting supporter abutting a display surface side of the light-emitting tube array for supporting the light-emitting tube array and having electrodes formed on its surface facing the light-emitting tube array for applying a voltage to the light-emitting tubes; and

a light-transmitting adhesive layer formed between the supporter and the light-emitting tube array,

wherein the supporter has a refractive index equal to or higher than that of the adhesive layer.

3. A light-emitting tube array display device comprising:

a light-emitting tube array constituted of a plurality of light-emitting tubes arranged in parallel with discharge gas filled therein;

a light-transmitting supporter abutting a display surface side of the light-emitting tube array for supporting the light-emitting tube array and having electrodes formed on its surface facing the light-emitting tube array for applying a voltage to the light-emitting tubes; and

a light-transmitting adhesive layer formed between the supporter and the light-emitting tube array,

wherein the adhesive layer has a refractive index equal to or higher than that of a tube body of each light-emitting tube, and the supporter has a refractive index higher than that of the adhesive layer.

4. The light-emitting tube array display device according to claim 3, wherein the refractive index of the tube body of each light-emitting tube is equal to or less than 1.47, the refractive index of the adhesive layer is 1.47-1.50, and the refractive index of the supporter is equal to or higher than 1.50.

5. The light-emitting tube array display device according to claim 1, 2 or 3, wherein the supporter is a flexible resin sheet.

6. The light-emitting tube array display device according to claim 5, wherein the tube body of each light-emitting tube is made of borosilicate glass, the flexible resin sheet is made of polyethylene terephthalate, and the adhesive layer is made of acrylic resin.

7. The light-emitting tube array display device according to claim 1, 2 or 3, wherein each light-emitting tube has a flat portion provided on its surface facing the supporter and a cross section that allows the flat portion to face at least one electrode of the supporter when the supporter abuts the flat portion.

8. The light-emitting tube array display device according to claim 1, 2 or 3, further comprising a resin layer formed in a space among the adjacent light-emitting tubes and the supporter.

9. The light-emitting tube array display device according to claim 1, 2 or 3, further comprising one or more film(s) or substrate(s) having a refractive index higher than that of the supporter, the one or more film(s) or substrate(s) being disposed on a display surface side of the supporter in such a manner that their refractive indices increase successively with distance from the supporter.

10. The light-emitting tube array display device according to claim 1, 2 or 3, further comprising a rear side substrate abutting a surface of each light-emitting tube opposite to the flat portion so that the light-emitting tube array is held between the supporter and the rear side substrate.